

"Stretch" Operation

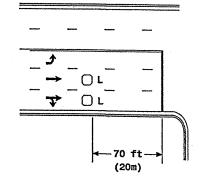
Speed Limit		- D1		D2	
mph	(km/hr)	ft	(m)	ft	(m)
40	(64)	250	(75)	80	(25)
45	(72)	300	(90)	90	(27)
50	(80)	355	(110)	100	(30)
55	(88)	420	(130)	110	(35)

(1.8m X 1.8m) Wired in series L2 = 6ft X 6ft (1.8m X 1.8m) Wired in series

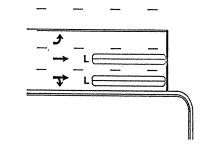
L1 = 6ft X 6ft

Low Speed Detection [<35 mph (56 km/hr)]

PROJECT REFERENCE NO. SHEET NO. 7CR.10791.6, ETC.



 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series



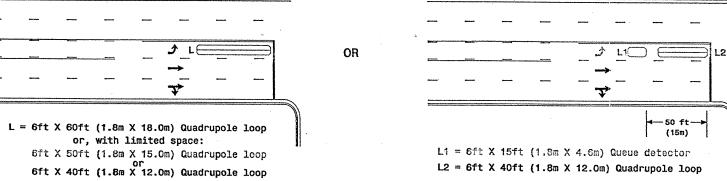
 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection

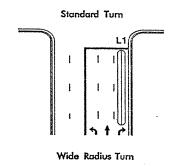
High Speed Detection

[>40 mph (64 km/hr)]

OR



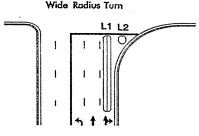
Queue Loop Detection

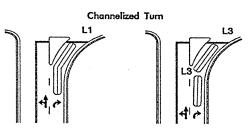


Right Turn Lane Detection

L1 = 6ft X 60ft (1.8m X 18.0m) Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

L3 = 6ft X 30ft (1.8m X 9.0m) Quadrupole loop Wired in series





Side Street Detection

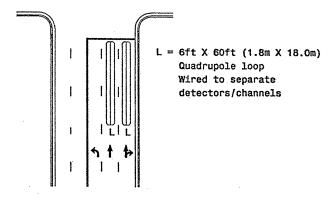
 $L = 6ft \times 6ft (1.8m \times 1.8m)$

Controllers

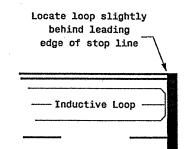
Wired in series for TS1

Wired separately for TS2,

170, and 2070L Controllers



Presence Loop Placement at Stop Lines



Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permitted or exclusive/permitted left turn.

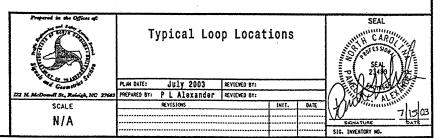
Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

Length of Lead-in ft (m)	Number of Turns			
< 250 (75)	3			
250-375 (75-115)	4			
375-525 (115-160)	5			
> 525 (160)	6			

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns



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